

Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Hardin County, Iowa

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00
7: Wiota-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
7B: Wiota-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.01
8B: Judson-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.01
11B: Colo-----	60	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell Slope	1.00 1.00 0.50 0.01
Ely-----	30	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	0.95 0.50	Somewhat limited Shrink-swell Slope	0.50 0.01
20C2: Killduff-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.86 0.50
20D3: Killduff-----	100	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Shrink-swell	0.63 0.50	Very limited Slope Shrink-swell	1.00 0.50
20E3: Killduff-----	100	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
27B: Terril-----	100	Not limited		Somewhat limited Depth to saturated zone	0.16	Somewhat limited Slope	0.01
55: Nicollet-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.73	Somewhat limited Shrink-swell	0.50
62C2: Storden-----	95	Not limited		Not limited		Somewhat limited Slope	0.86
62D2: Storden-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Slope	1.00
62E2: Storden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
62G2: Storden-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
73C: Salida-----	90	Not limited		Not limited		Somewhat limited Slope	0.86
73E: Salida-----	95	Very limited Slope	0.96	Very limited Slope	0.96	Very limited Slope	1.00
83C2: Kenyon-----	100	Not limited		Somewhat limited Depth to saturated zone	0.16	Somewhat limited Slope	0.86
83E2: Kenyon-----	100	Very limited Slope	0.96	Very limited Slope Depth to saturated zone	0.96 0.16	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
90: Okoboji-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00
95: Harps-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
96: Turlin-----	95	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.61	Very limited Flooding	1.00
107: Webster-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
118: Garwin-----	100	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 1.00
119: Muscatine-----	95	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	0.95 0.50	Somewhat limited Shrink-swell	0.50
119B: Muscatine-----	95	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	0.95 0.50	Somewhat limited Shrink-swell Slope	0.50 0.01
120B: Tama-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
120C: Tama-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.86 0.50
120C2: Tama-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.86 0.50
120D2: Tama-----	100	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Shrink-swell	0.63 0.50	Very limited Slope Shrink-swell	1.00 0.50
122: Sperry-----	100	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00
133: Colo-----	95	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50
135: Coland-----	95	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50
138B: Clarion-----	100	Not limited		Not limited		Somewhat limited Slope	0.01
138C2: Clarion-----	95	Not limited		Not limited		Somewhat limited Slope	0.86
138D2: Clarion-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
152: Marshan-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
162B: Downs-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.01
162C2: Downs-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	 0.86 0.50
162D2: Downs-----	100	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Shrink-swell	0.63 0.50	Very limited Slope Shrink-swell	 1.00 0.50
163B: Fayette-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	 0.50 0.01
163C: Fayette-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	 0.86 0.50
163D: Fayette-----	100	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Shrink-swell	0.63 0.50	Very limited Slope Shrink-swell	 1.00 0.50
168B: Hayden-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	 0.50 0.01
168C: Hayden-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	 0.86 0.50

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
168G: Hayden-----	95	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
177: Saude-----	95	Not limited		Not limited		Not limited	
177B: Saude-----	95	Not limited		Not limited		Somewhat limited Slope	0.01
177C: Saude-----	95	Not limited		Not limited		Somewhat limited Slope	0.86
178: Waukee-----	100	Not limited		Not limited		Not limited	
178B: Waukee-----	100	Not limited		Not limited		Somewhat limited Slope	0.01
184: Klinger-----	95	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone	0.95	Somewhat limited Shrink-swell	0.50
184B: Klinger-----	95	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone	0.95	Somewhat limited Shrink-swell Slope	0.50 0.01
188: Kensett-----	95	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.26	Very limited Depth to hard bedrock Depth to saturated zone Shrink-swell	1.00 0.95 0.50	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.26

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
201B: Coland-----	50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell Slope	1.00 1.00 0.50 0.01
Terril-----	35	Not limited		Somewhat limited Depth to saturated zone	0.16	Somewhat limited Slope	0.01
212: Kennebec-----	95	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.61 0.50	Very limited Flooding Shrink-swell	1.00 0.50
221: Palms-----	100	Very limited Subsidence Depth to saturated zone Content of organic matter	1.00 1.00 1.00	Very limited Subsidence Depth to saturated zone Content of organic matter	1.00 1.00 1.00	Very limited Subsidence Depth to saturated zone Content of organic matter	1.00 1.00 1.00
225: Lawler-----	95	Not limited		Very limited Depth to saturated zone	0.95	Not limited	
226: Lawler-----	95	Not limited		Very limited Depth to saturated zone	0.95	Not limited	
236B: Lester-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.01
236C: Lester-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.86 0.50

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
236C2: Lester-----	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.86 0.50
236D2: Lester-----	95	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Shrink-swell	0.63 0.50	Very limited Slope Shrink-swell	1.00 0.50
236F: Lester-----	95	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
284: Flagler-----	100	Not limited		Not limited		Not limited	
284B: Flagler-----	100	Not limited		Not limited		Somewhat limited Slope	0.01
284C2: Flagler-----	100	Not limited		Not limited		Somewhat limited Slope	0.86
291: Atterberry-----	95	Somewhat limited Depth to saturated zone	0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.39
325: Le Sueur-----	95	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	0.95 0.50	Somewhat limited Shrink-swell	0.50
329: Webster-----	50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
Nicollet-----	30	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.73	Somewhat limited Shrink-swell	0.50

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
335: Harcot-----	100	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
377B: Dinsdale-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.16	Somewhat limited Shrink-swell Slope	0.50 0.01
377C2: Dinsdale-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.16	Somewhat limited Slope Shrink-swell	0.86 0.50
377D2: Dinsdale-----	100	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.16	Very limited Slope Shrink-swell	1.00 0.50
382: Maxfield-----	100	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00
393C: Sparta-----	95	Not limited		Not limited		Somewhat limited Slope	0.48
393D: Sparta-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Slope	1.00
409B: Dickinson-----	100	Not limited		Not limited		Somewhat limited Slope	0.01
409C: Dickinson-----	100	Not limited		Not limited		Somewhat limited Slope	0.86

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
415G: Montieth-----	100	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock	1.00 0.26	Very limited Slope	1.00
428B: Ely-----	95	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	0.95 0.50	Somewhat limited Shrink-swell Slope	0.50 0.01
457: Du Page-----	95	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.15	Very limited Flooding	1.00
485: Spillville-----	95	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.61 0.50	Very limited Flooding Shrink-swell	1.00 0.50
491G: Renova-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
506: Wacousta-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
507: Canisteo-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
536: Hanlon-----	95	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.61	Very limited Flooding	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
595: Harpster-----	95	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
638C2: Clarion-----	55	Not limited		Not limited		Somewhat limited Slope	0.86
Storden-----	35	Not limited		Not limited		Somewhat limited Slope	0.86
638D2: Clarion-----	55	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Slope	1.00
Storden-----	35	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Slope	1.00
696: Tilfer-----	100	Very limited Flooding Depth to saturated zone Shrink-swell Depth to hard bedrock	1.00 1.00 0.50 0.46	Very limited Flooding Depth to saturated zone Depth to hard bedrock Shrink-swell	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell Depth to hard bedrock	1.00 1.00 0.50 0.46
705C2: Downs Variant-----	90	Not limited		Not limited		Somewhat limited Slope	0.86
705D2: Downs Variant-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Slope	1.00
733: Calco-----	100	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00

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771B: Waubeek-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.16	Somewhat limited Shrink-swell	0.50
						Slope	0.01
771C2: Waubeek-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.16	Somewhat limited Slope	0.86
						Shrink-swell	0.50
771D2: Waubeek-----	100	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.16	Very limited Slope Shrink-swell	1.00 0.50
814: Rockton-----	100	Somewhat limited Depth to hard bedrock	0.46	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to hard bedrock	0.46
814B: Rockton-----	100	Somewhat limited Depth to hard bedrock	0.46	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to hard bedrock Slope	0.46 0.01
814C2: Rockton-----	100	Somewhat limited Depth to hard bedrock	0.46	Very limited Depth to hard bedrock	1.00	Somewhat limited Slope Depth to hard bedrock	0.86 0.46
828B: Zenor-----	100	Not limited		Not limited		Somewhat limited Slope	0.01
828C2: Zenor-----	90	Not limited		Not limited		Somewhat limited Slope	0.86

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933: Sawmill-----	100	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50
936: Coland-----	50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50
Spillville-----	25	Very limited Flooding Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.61 0.50	Very limited Flooding Shrink-swell	1.00 1.00 0.50
Hanlon-----	15	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 1.00 0.61	Very limited Flooding	1.00
956: Okoboji-----	45	Very limited Depth to saturated zone Shrink-swell	1.00 1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00 1.00
Harps-----	40	Very limited Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 1.00 0.50
1936: Coland-----	50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50

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Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Spillville-----	25	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.61 0.50	Very limited Flooding Shrink-swell	1.00 0.50
Hanlon-----	15	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.61	Very limited Flooding	1.00
4000: Urban Land-----	100	Not rated		Not rated		Not rated	
5010: Pits, Sand And Gravel-----	100	Not rated		Not rated		Not rated	
5030: Pits, Limeston Quarry-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	